

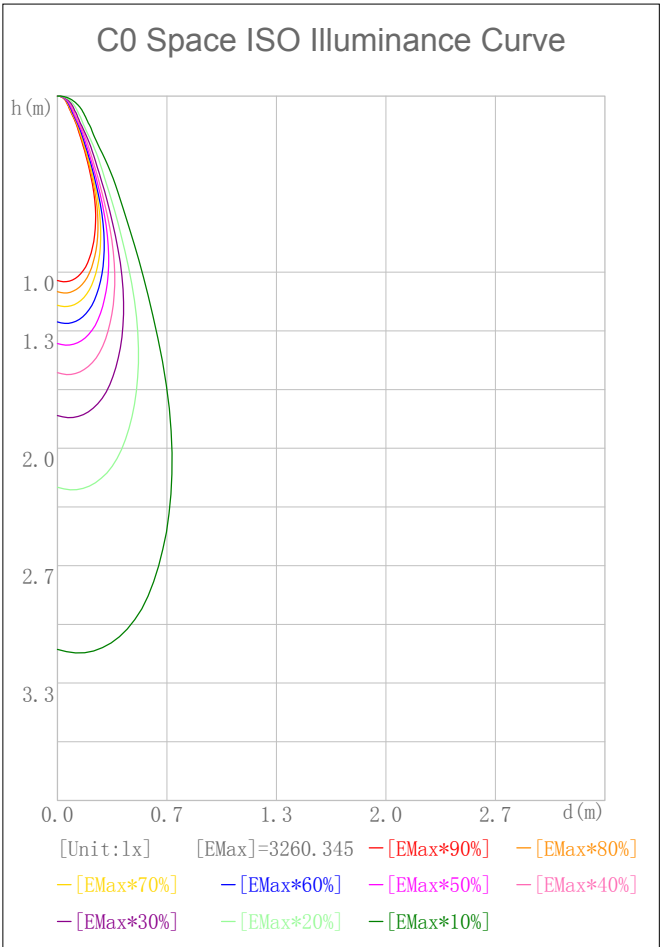
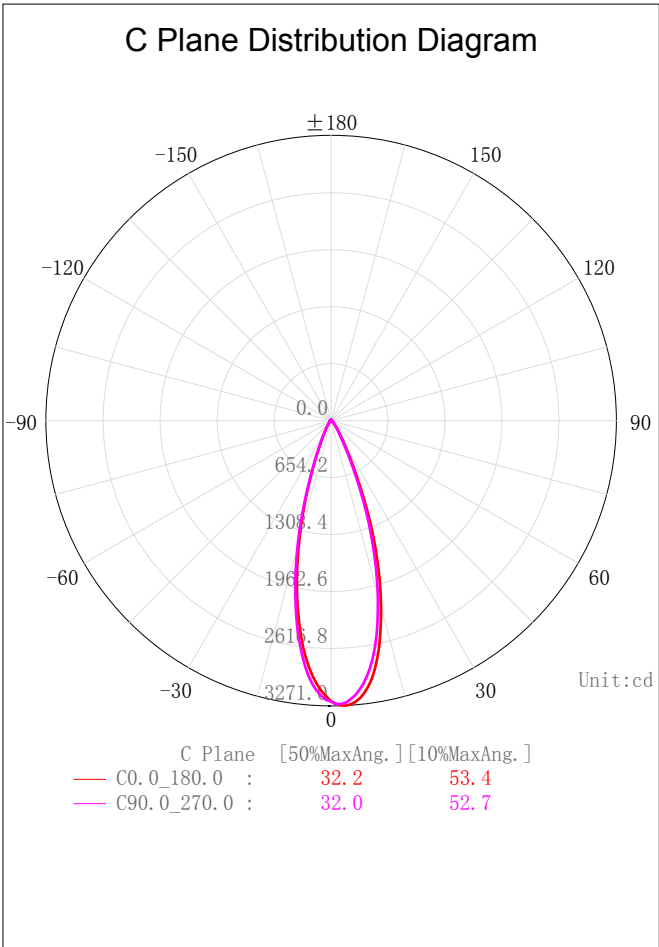
Indoor Luminaire Photometric Data

Description Information

|   |                         |                       |
|---|-------------------------|-----------------------|
| Luminary Name: TR05-15-XX-01 3000K RA90 36D     | Lum. Catalog:           | Test ID: 01           |
| Lamp Name:                                      | Lamp Catalog: LED       | Test Date: 2020/07/09 |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Shld. Ang(°):           | Test Machine:GON-2000 |
| Test Lab: Quality Department                    | Frequency (Hz):         | Lamp CCT (K): Ra:     |
| Lum. Size (W*L*H):0.050m*0.000m*0.000m          | Lum. Area (m2):0.002    | Lum. W (kg): 0.000    |
| Test System: C, γ                               | Test Step: C=90.0 γ=1.0 | Temp. (°C): 25        |
|   |                         | Humidity(%): 50.0     |

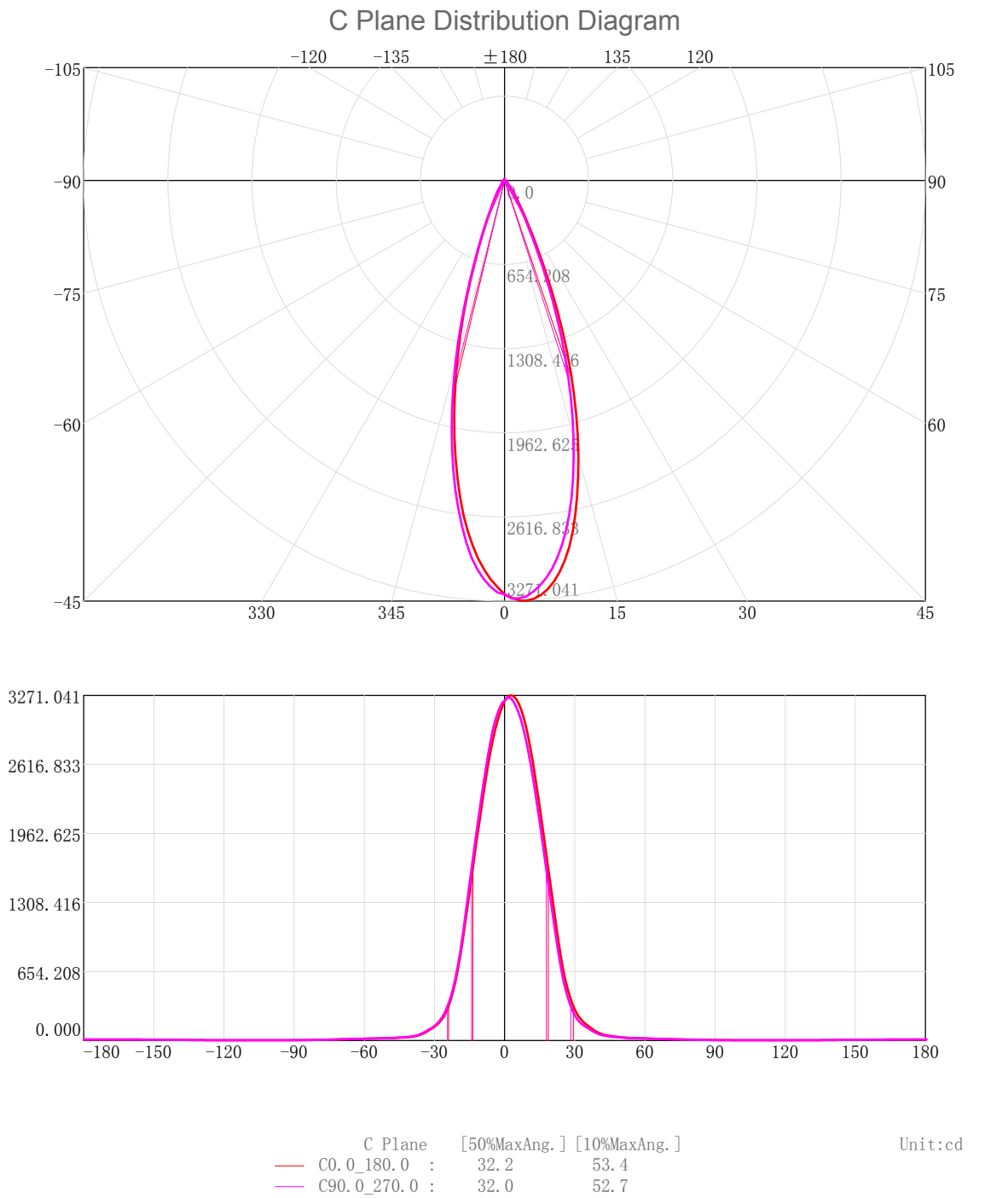
Character Parameter

| Lamp Speciality Parameter                       | Luminaire Speciality Parameter |  |
|---|--------------------------------|--|
| Rated Flux(lm): 1165.370                        | Luminary Flux(lm): 1165.370    | Field Angle(10%Imax): 53.4(°)          |
| Rated Power(W):                                 | Luminary Efficiency: 100.00%   | Down Lumens&Percent: 1133.362lm 97.25% |
| Rated Voltage(V):                               | Luminary EER(lm/W): 79.875     | Up Lumens&Percent: 32.008lm 2.75%      |
| Tested Power(W): 14.590                         | Max. Candela(cd): 3271.041     | S/MH: C0_a180=0.542 C90_270=0.535      |
| Lamps' Inside: 1                                | Max Cand@Ang. (°): C=0.0 γ=3.0 | CIE Type: Semi-Direct                  |
| Tested Electrics (V, A, pf):239.7, 0.062, 0.967 | Beam Angle(50%Imax): 32.2(°)   | ErP Φ use(90°): 1054.116lm             |
| Lamp Size (W*L*H):0.050m*0.000m*0.000m          | Left=-13.5°, Right=18.7°       | IRF(%): 558.621                        |



2D Plane Light Intensity Distribution Curve

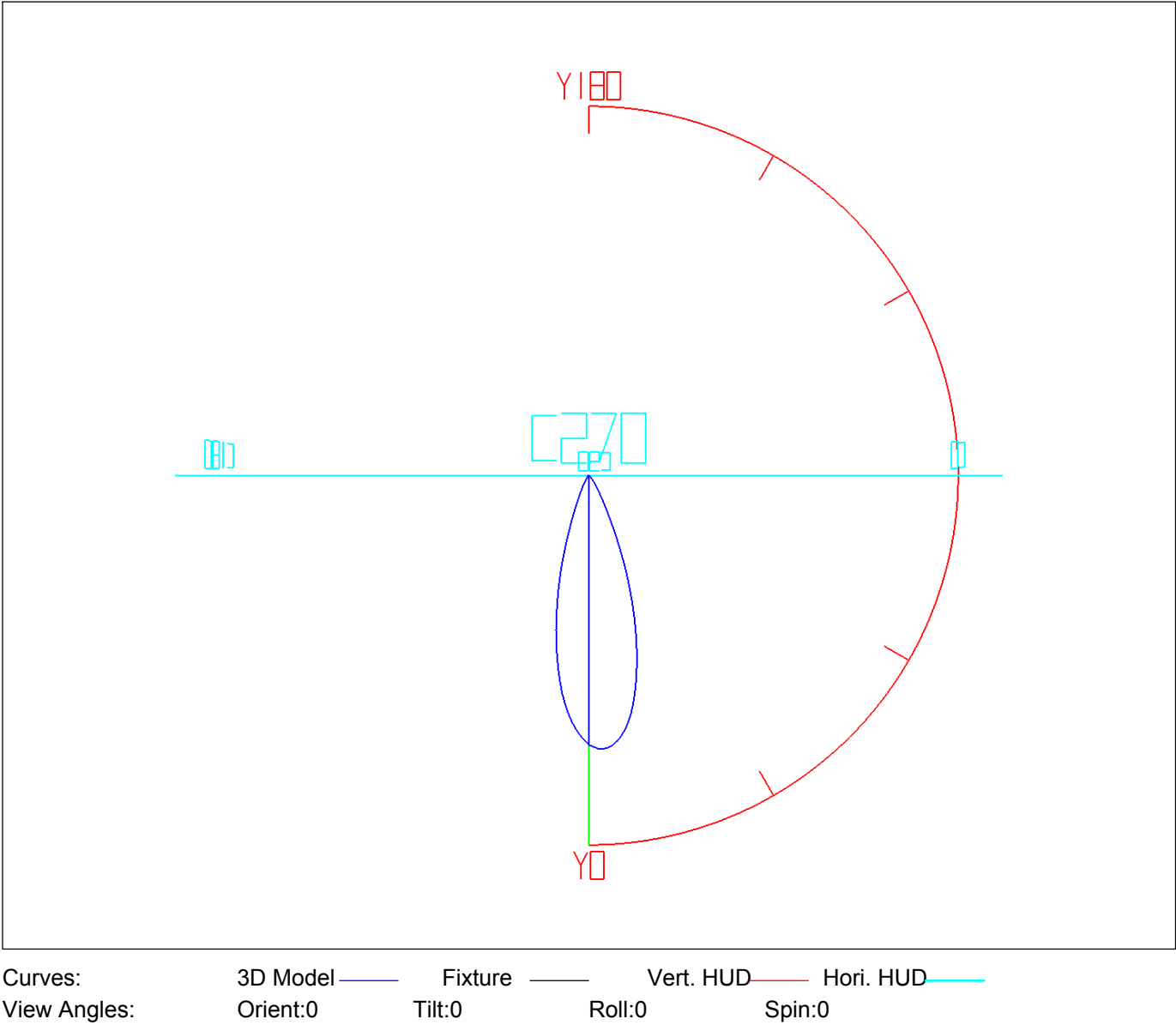
|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: TR05-15-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catelog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |



3D Light Intensity Distribution Modal

|  |                       |                             |
|--|-----------------------|-----------------------------|
| Lum. Name:TR05-15-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID:01                  |
| Lamp Name:                                     | Lamp Catelog:LED      | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2020/07/09        |

3D Light Intensity Distribution Modal



IES Indoor Report

Photometric Filename:TR05-15-XX-01 3000K RA90 36D.IES

Zonal Flux Tabulation

| Zone(γ)   | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp | Zone(γ)   | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0   | 3.08              | 3.08              | 0.26      | 0.26      | 47.0-48.0 | 2.48              | 1074.73           | 0.21      | 92.22     |
| 1.0-2.0   | 9.20              | 12.28             | 0.79      | 1.05      | 48.0-49.0 | 2.41              | 1077.14           | 0.21      | 92.43     |
| 2.0-3.0   | 15.20             | 27.48             | 1.30      | 2.36      | 49.0-50.0 | 2.34              | 1079.48           | 0.20      | 92.63     |
| 3.0-4.0   | 20.99             | 48.46             | 1.80      | 4.16      | 50.0-51.0 | 2.26              | 1081.74           | 0.19      | 92.82     |
| 4.0-5.0   | 26.49             | 74.95             | 2.27      | 6.43      | 51.0-52.0 | 2.18              | 1083.93           | 0.19      | 93.01     |
| 5.0-6.0   | 31.62             | 106.57            | 2.71      | 9.14      | 52.0-53.0 | 2.13              | 1086.06           | 0.18      | 93.19     |
| 6.0-7.0   | 36.29             | 142.86            | 3.11      | 12.26     | 53.0-54.0 | 2.08              | 1088.14           | 0.18      | 93.37     |
| 7.0-8.0   | 40.45             | 183.31            | 3.47      | 15.73     | 54.0-55.0 | 2.04              | 1090.18           | 0.18      | 93.55     |
| 8.0-9.0   | 44.04             | 227.35            | 3.78      | 19.51     | 55.0-56.0 | 2.00              | 1092.18           | 0.17      | 93.72     |
| 9.0-10.0  | 47.00             | 274.35            | 4.03      | 23.54     | 56.0-57.0 | 1.96              | 1094.13           | 0.17      | 93.89     |
| 10.0-11.0 | 49.28             | 323.63            | 4.23      | 27.77     | 57.0-58.0 | 1.92              | 1096.05           | 0.16      | 94.05     |
| 11.0-12.0 | 50.86             | 374.49            | 4.36      | 32.13     | 58.0-59.0 | 1.88              | 1097.93           | 0.16      | 94.21     |
| 12.0-13.0 | 51.71             | 426.20            | 4.44      | 36.57     | 59.0-60.0 | 1.84              | 1099.77           | 0.16      | 94.37     |
| 13.0-14.0 | 51.84             | 478.04            | 4.45      | 41.02     | 60.0-61.0 | 1.80              | 1101.57           | 0.15      | 94.53     |
| 14.0-15.0 | 51.35             | 529.39            | 4.41      | 45.43     | 61.0-62.0 | 1.75              | 1103.32           | 0.15      | 94.68     |
| 15.0-16.0 | 50.23             | 579.62            | 4.31      | 49.74     | 62.0-63.0 | 1.71              | 1105.03           | 0.15      | 94.82     |
| 16.0-17.0 | 48.43             | 628.05            | 4.16      | 53.89     | 63.0-64.0 | 1.67              | 1106.70           | 0.14      | 94.97     |
| 17.0-18.0 | 46.06             | 674.11            | 3.95      | 57.85     | 64.0-65.0 | 1.61              | 1108.31           | 0.14      | 95.10     |
| 18.0-19.0 | 43.20             | 717.31            | 3.71      | 61.55     | 65.0-66.0 | 1.56              | 1109.88           | 0.13      | 95.24     |
| 19.0-20.0 | 39.97             | 757.29            | 3.43      | 64.98     | 66.0-67.0 | 1.52              | 1111.39           | 0.13      | 95.37     |
| 20.0-21.0 | 36.57             | 793.85            | 3.14      | 68.12     | 67.0-68.0 | 1.47              | 1112.86           | 0.13      | 95.49     |
| 21.0-22.0 | 33.08             | 826.93            | 2.84      | 70.96     | 68.0-69.0 | 1.41              | 1114.27           | 0.12      | 95.62     |
| 22.0-23.0 | 29.53             | 856.46            | 2.53      | 73.49     | 69.0-70.0 | 1.36              | 1115.63           | 0.12      | 95.73     |
| 23.0-24.0 | 26.07             | 882.53            | 2.24      | 75.73     | 70.0-71.0 | 1.31              | 1116.95           | 0.11      | 95.84     |
| 24.0-25.0 | 22.84             | 905.36            | 1.96      | 77.69     | 71.0-72.0 | 1.26              | 1118.21           | 0.11      | 95.95     |
| 25.0-26.0 | 19.93             | 925.29            | 1.71      | 79.40     | 72.0-73.0 | 1.21              | 1119.42           | 0.10      | 96.06     |
| 26.0-27.0 | 17.40             | 942.69            | 1.49      | 80.89     | 73.0-74.0 | 1.17              | 1120.59           | 0.10      | 96.16     |
| 27.0-28.0 | 15.23             | 957.92            | 1.31      | 82.20     | 74.0-75.0 | 1.12              | 1121.71           | 0.10      | 96.25     |
| 28.0-29.0 | 13.37             | 971.29            | 1.15      | 83.35     | 75.0-76.0 | 1.07              | 1122.78           | 0.09      | 96.35     |
| 29.0-30.0 | 11.79             | 983.07            | 1.01      | 84.36     | 76.0-77.0 | 1.03              | 1123.80           | 0.09      | 96.43     |
| 30.0-31.0 | 10.48             | 993.55            | 0.90      | 85.26     | 77.0-78.0 | 0.98              | 1124.78           | 0.08      | 96.52     |
| 31.0-32.0 | 9.39              | 1002.93           | 0.81      | 86.06     | 78.0-79.0 | 0.93              | 1125.72           | 0.08      | 96.60     |
| 32.0-33.0 | 8.46              | 1011.39           | 0.73      | 86.79     | 79.0-80.0 | 0.89              | 1126.61           | 0.08      | 96.67     |
| 33.0-34.0 | 7.64              | 1019.03           | 0.66      | 87.44     | 80.0-81.0 | 0.85              | 1127.46           | 0.07      | 96.75     |
| 34.0-35.0 | 6.90              | 1025.93           | 0.59      | 88.03     | 81.0-82.0 | 0.81              | 1128.26           | 0.07      | 96.82     |
| 35.0-36.0 | 6.21              | 1032.14           | 0.53      | 88.57     | 82.0-83.0 | 0.76              | 1129.03           | 0.07      | 96.88     |
| 36.0-37.0 | 5.56              | 1037.69           | 0.48      | 89.04     | 83.0-84.0 | 0.72              | 1129.75           | 0.06      | 96.94     |
| 37.0-38.0 | 4.96              | 1042.66           | 0.43      | 89.47     | 84.0-85.0 | 0.68              | 1130.43           | 0.06      | 97.00     |
| 38.0-39.0 | 4.44              | 1047.10           | 0.38      | 89.85     | 85.0-86.0 | 0.65              | 1131.08           | 0.06      | 97.06     |
| 39.0-40.0 | 4.00              | 1051.10           | 0.34      | 90.19     | 86.0-87.0 | 0.61              | 1131.69           | 0.05      | 97.11     |
| 40.0-41.0 | 3.63              | 1054.73           | 0.31      | 90.51     | 87.0-88.0 | 0.58              | 1132.27           | 0.05      | 97.16     |
| 41.0-42.0 | 3.34              | 1058.08           | 0.29      | 90.79     | 88.0-89.0 | 0.56              | 1132.83           | 0.05      | 97.21     |
| 42.0-43.0 | 3.12              | 1061.20           | 0.27      | 91.06     | 89.0-90.0 | 0.53              | 1133.36           | 0.05      | 97.25     |
| 43.0-44.0 | 2.95              | 1064.15           | 0.25      | 91.31     | 90.0-91.0 | 0.51              | 1133.88           | 0.04      | 97.30     |
| 44.0-45.0 | 2.81              | 1066.96           | 0.24      | 91.56     | 91.0-92.0 | 0.50              | 1134.37           | 0.04      | 97.34     |
| 45.0-46.0 | 2.70              | 1069.66           | 0.23      | 91.79     | 92.0-93.0 | 0.49              | 1134.86           | 0.04      | 97.38     |
| 46.0-47.0 | 2.58              | 1072.25           | 0.22      | 92.01     | 93.0-94.0 | 0.48              | 1135.34           | 0.04      | 97.42     |

IES Indoor Report

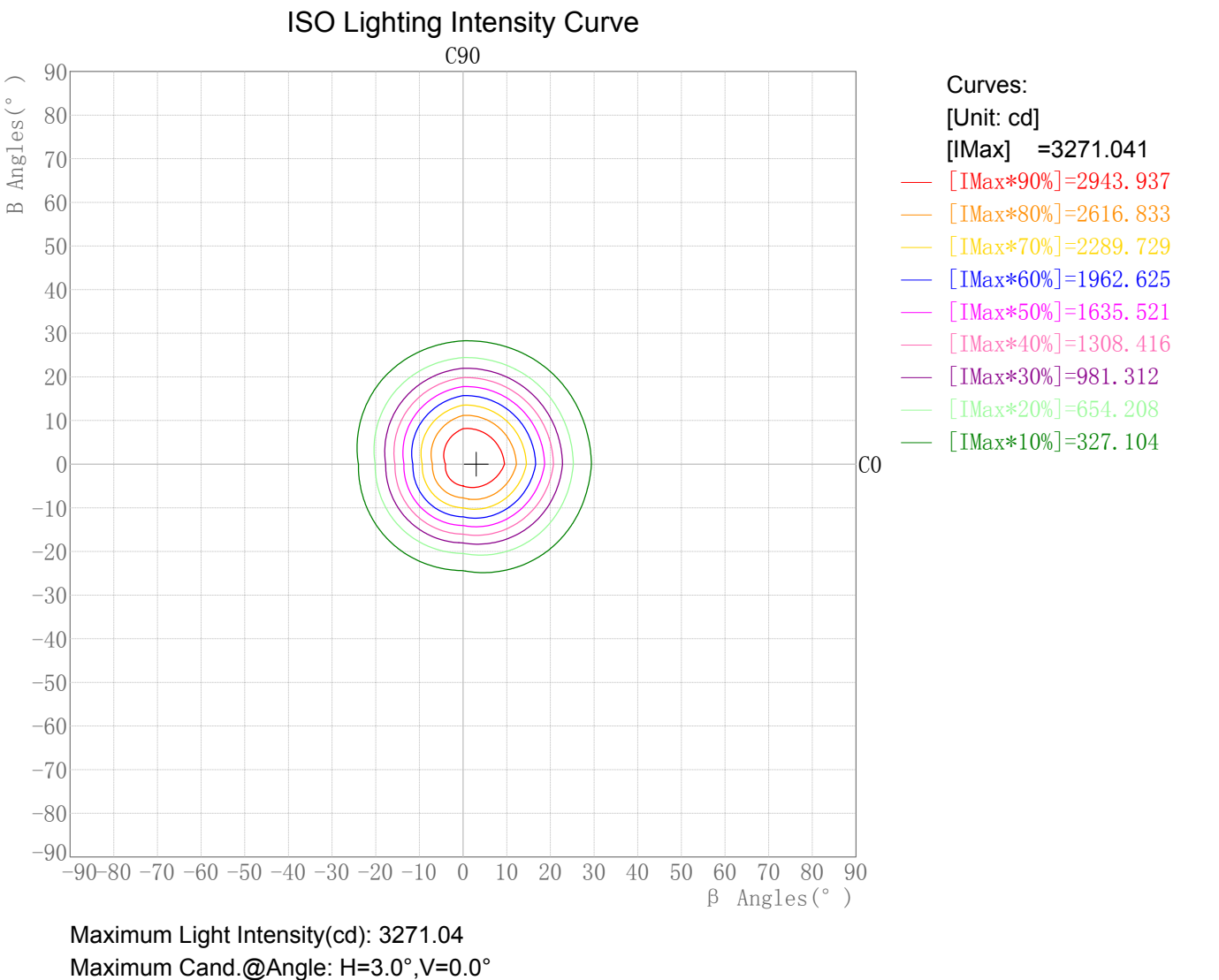
Photometric Filename:TR05-15-XX-01 3000K RA90 36D.IES

Zonal Flux Tabulation - (Cont.)

| Zone(γ)     | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp | Zone(γ)     | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp |
|-------------|-------------------|-------------------|-----------|-----------|-------------|-------------------|-------------------|-----------|-----------|
| 94.0-95.0   | 0.47              | 1135.81           | 0.04      | 97.46     | 141.0-142.0 | 0.44              | 1153.77           | 0.04      | 99.01     |
| 95.0-96.0   | 0.46              | 1136.27           | 0.04      | 97.50     | 142.0-143.0 | 0.45              | 1154.22           | 0.04      | 99.04     |
| 96.0-97.0   | 0.45              | 1136.73           | 0.04      | 97.54     | 143.0-144.0 | 0.45              | 1154.67           | 0.04      | 99.08     |
| 97.0-98.0   | 0.45              | 1137.17           | 0.04      | 97.58     | 144.0-145.0 | 0.46              | 1155.13           | 0.04      | 99.12     |
| 98.0-99.0   | 0.44              | 1137.61           | 0.04      | 97.62     | 145.0-146.0 | 0.46              | 1155.59           | 0.04      | 99.16     |
| 99.0-100.0  | 0.43              | 1138.04           | 0.04      | 97.66     | 146.0-147.0 | 0.46              | 1156.05           | 0.04      | 99.20     |
| 100.0-101.0 | 0.43              | 1138.47           | 0.04      | 97.69     | 147.0-148.0 | 0.46              | 1156.51           | 0.04      | 99.24     |
| 101.0-102.0 | 0.42              | 1138.89           | 0.04      | 97.73     | 148.0-149.0 | 0.46              | 1156.96           | 0.04      | 99.28     |
| 102.0-103.0 | 0.41              | 1139.30           | 0.04      | 97.76     | 149.0-150.0 | 0.46              | 1157.42           | 0.04      | 99.32     |
| 103.0-104.0 | 0.41              | 1139.70           | 0.03      | 97.80     | 150.0-151.0 | 0.45              | 1157.88           | 0.04      | 99.36     |
| 104.0-105.0 | 0.40              | 1140.10           | 0.03      | 97.83     | 151.0-152.0 | 0.45              | 1158.33           | 0.04      | 99.40     |
| 105.0-106.0 | 0.39              | 1140.50           | 0.03      | 97.87     | 152.0-153.0 | 0.44              | 1158.77           | 0.04      | 99.43     |
| 106.0-107.0 | 0.39              | 1140.89           | 0.03      | 97.90     | 153.0-154.0 | 0.44              | 1159.21           | 0.04      | 99.47     |
| 107.0-108.0 | 0.38              | 1141.27           | 0.03      | 97.93     | 154.0-155.0 | 0.43              | 1159.64           | 0.04      | 99.51     |
| 108.0-109.0 | 0.38              | 1141.64           | 0.03      | 97.96     | 155.0-156.0 | 0.42              | 1160.06           | 0.04      | 99.54     |
| 109.0-110.0 | 0.37              | 1142.02           | 0.03      | 98.00     | 156.0-157.0 | 0.41              | 1160.47           | 0.04      | 99.58     |
| 110.0-111.0 | 0.37              | 1142.38           | 0.03      | 98.03     | 157.0-158.0 | 0.40              | 1160.87           | 0.03      | 99.61     |
| 111.0-112.0 | 0.36              | 1142.75           | 0.03      | 98.06     | 158.0-159.0 | 0.39              | 1161.25           | 0.03      | 99.65     |
| 112.0-113.0 | 0.36              | 1143.11           | 0.03      | 98.09     | 159.0-160.0 | 0.37              | 1161.62           | 0.03      | 99.68     |
| 113.0-114.0 | 0.35              | 1143.46           | 0.03      | 98.12     | 160.0-161.0 | 0.36              | 1161.98           | 0.03      | 99.71     |
| 114.0-115.0 | 0.35              | 1143.81           | 0.03      | 98.15     | 161.0-162.0 | 0.34              | 1162.32           | 0.03      | 99.74     |
| 115.0-116.0 | 0.35              | 1144.16           | 0.03      | 98.18     | 162.0-163.0 | 0.32              | 1162.65           | 0.03      | 99.77     |
| 116.0-117.0 | 0.34              | 1144.50           | 0.03      | 98.21     | 163.0-164.0 | 0.31              | 1162.96           | 0.03      | 99.79     |
| 117.0-118.0 | 0.34              | 1144.84           | 0.03      | 98.24     | 164.0-165.0 | 0.29              | 1163.25           | 0.02      | 99.82     |
| 118.0-119.0 | 0.34              | 1145.18           | 0.03      | 98.27     | 165.0-166.0 | 0.27              | 1163.52           | 0.02      | 99.84     |
| 119.0-120.0 | 0.34              | 1145.52           | 0.03      | 98.30     | 166.0-167.0 | 0.25              | 1163.77           | 0.02      | 99.86     |
| 120.0-121.0 | 0.34              | 1145.85           | 0.03      | 98.33     | 167.0-168.0 | 0.24              | 1164.01           | 0.02      | 99.88     |
| 121.0-122.0 | 0.34              | 1146.19           | 0.03      | 98.35     | 168.0-169.0 | 0.22              | 1164.22           | 0.02      | 99.90     |
| 122.0-123.0 | 0.34              | 1146.53           | 0.03      | 98.38     | 169.0-170.0 | 0.20              | 1164.42           | 0.02      | 99.92     |
| 123.0-124.0 | 0.34              | 1146.86           | 0.03      | 98.41     | 170.0-171.0 | 0.18              | 1164.60           | 0.02      | 99.93     |
| 124.0-125.0 | 0.34              | 1147.20           | 0.03      | 98.44     | 171.0-172.0 | 0.16              | 1164.76           | 0.01      | 99.95     |
| 125.0-126.0 | 0.34              | 1147.54           | 0.03      | 98.47     | 172.0-173.0 | 0.14              | 1164.90           | 0.01      | 99.96     |
| 126.0-127.0 | 0.34              | 1147.89           | 0.03      | 98.50     | 173.0-174.0 | 0.12              | 1165.03           | 0.01      | 99.97     |
| 127.0-128.0 | 0.35              | 1148.23           | 0.03      | 98.53     | 174.0-175.0 | 0.10              | 1165.13           | 0.01      | 99.98     |
| 128.0-129.0 | 0.35              | 1148.59           | 0.03      | 98.56     | 175.0-176.0 | 0.09              | 1165.22           | 0.01      | 99.99     |
| 129.0-130.0 | 0.36              | 1148.94           | 0.03      | 98.59     | 176.0-177.0 | 0.07              | 1165.28           | 0.01      | 99.99     |
| 130.0-131.0 | 0.36              | 1149.31           | 0.03      | 98.62     | 177.0-178.0 | 0.05              | 1165.33           | 0.00      | 100.00    |
| 131.0-132.0 | 0.37              | 1149.68           | 0.03      | 98.65     | 178.0-179.0 | 0.03              | 1165.36           | 0.00      | 100.00    |
| 132.0-133.0 | 0.38              | 1150.05           | 0.03      | 98.69     | 179.0-180.0 | 0.01              | 1165.37           | 0.00      | 100.00    |
| 133.0-134.0 | 0.38              | 1150.44           | 0.03      | 98.72     |             |                   |                   |           |           |
| 134.0-135.0 | 0.39              | 1150.83           | 0.03      | 98.75     |             |                   |                   |           |           |
| 135.0-136.0 | 0.40              | 1151.23           | 0.03      | 98.79     |             |                   |                   |           |           |
| 136.0-137.0 | 0.41              | 1151.63           | 0.03      | 98.82     |             |                   |                   |           |           |
| 137.0-138.0 | 0.41              | 1152.05           | 0.04      | 98.86     |             |                   |                   |           |           |
| 138.0-139.0 | 0.42              | 1152.47           | 0.04      | 98.89     |             |                   |                   |           |           |
| 139.0-140.0 | 0.43              | 1152.90           | 0.04      | 98.93     |             |                   |                   |           |           |
| 140.0-141.0 | 0.44              | 1153.33           | 0.04      | 98.97     |             |                   |                   |           |           |

Rectangle ISO Lighting Intensity Diagram

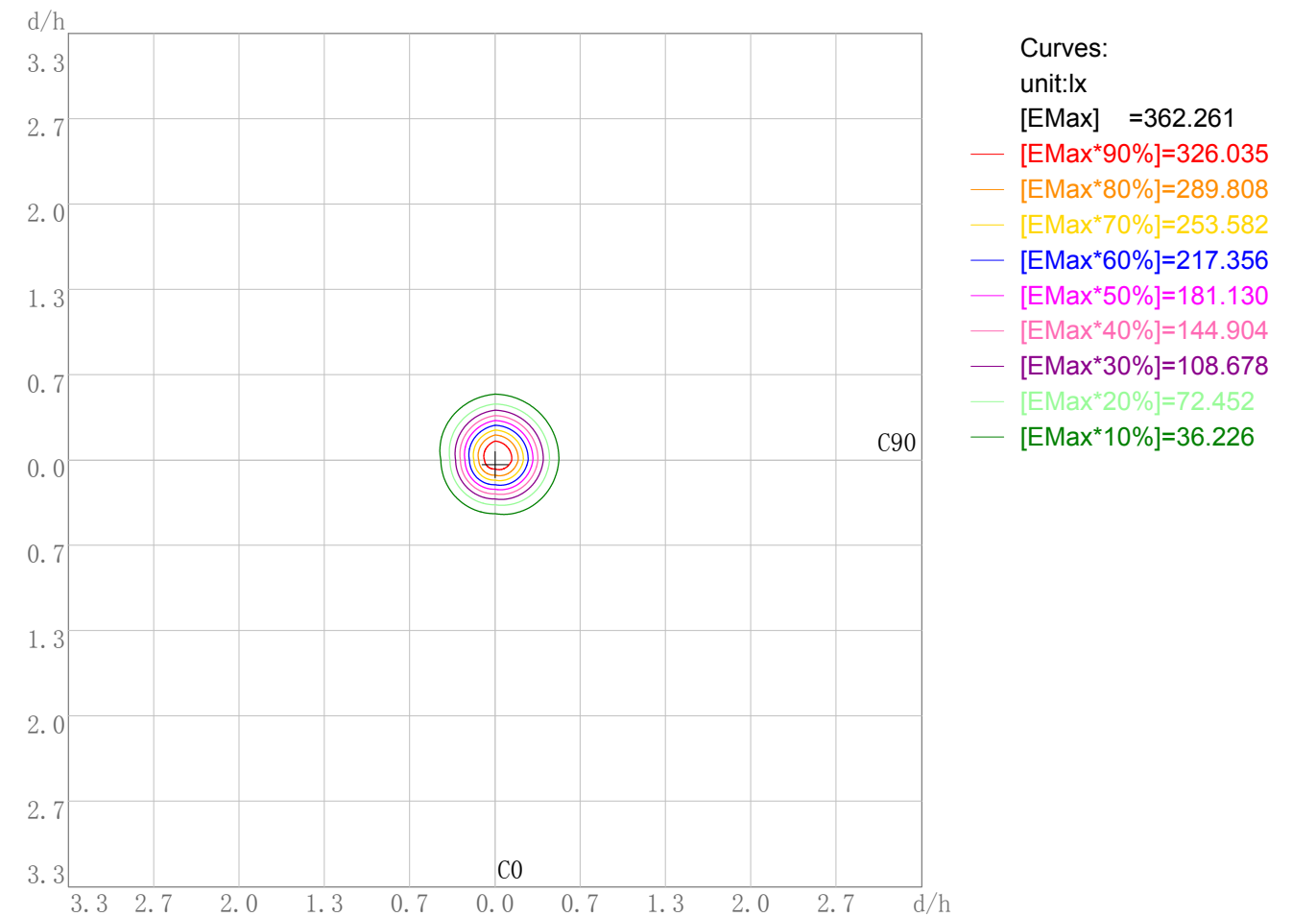
|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name:TR05-15-XX-01 3000K RA90 36D          | Lum. Catalog:         | Test ID:01                   |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |



Plane ISO-Illuminance Diagram

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name:TR05-15-XX-01 3000K RA90 36D          | Lum. Catalog:         | Test ID:01                   |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 362.26  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

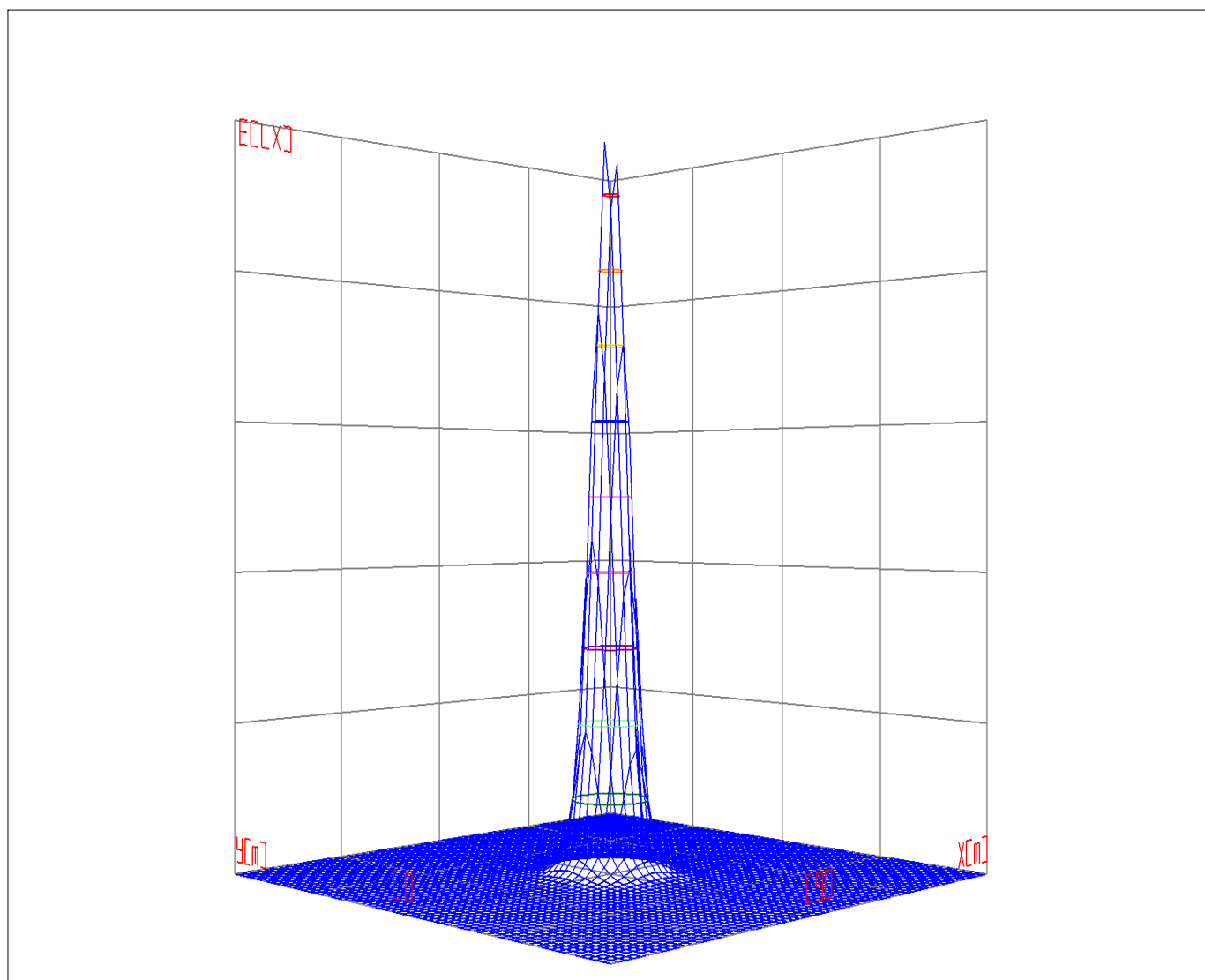
# IES Indoor Report

Photometric Filename:TR05-15-XX-01 3000K RA90 36D.IES

## 3D Plane ISO Illuminance Diagram

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: TR05-15-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |

## 3D Plane Illuminance Modal



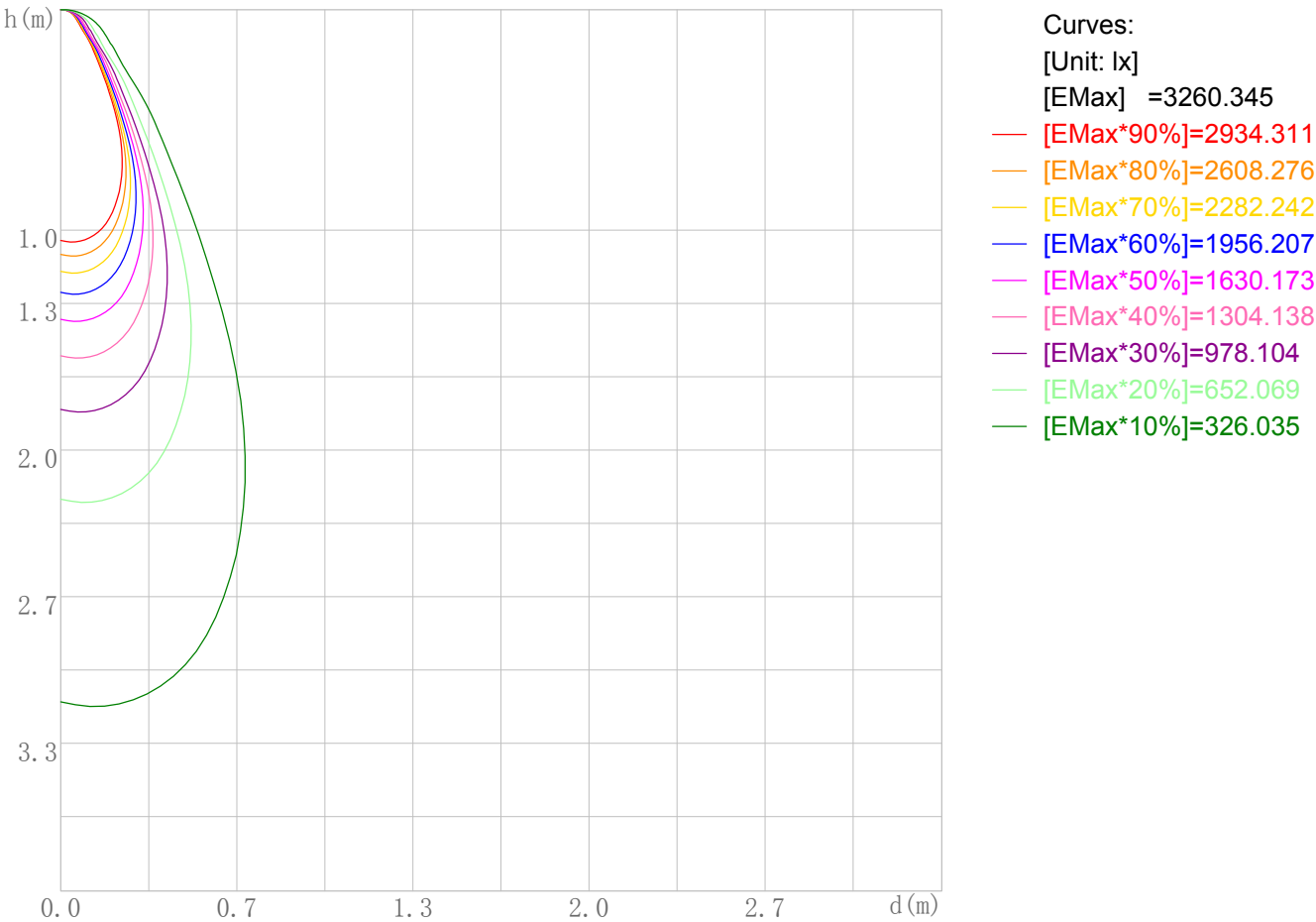
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0



Space ISO Illuminance Diagram

|  |                       |                             |
|--|-----------------------|-----------------------------|
| Lum. Name:TR05-15-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID:01                  |
| Lamp Name:                                     | Lamp Catelog:LED      | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2020/07/09        |

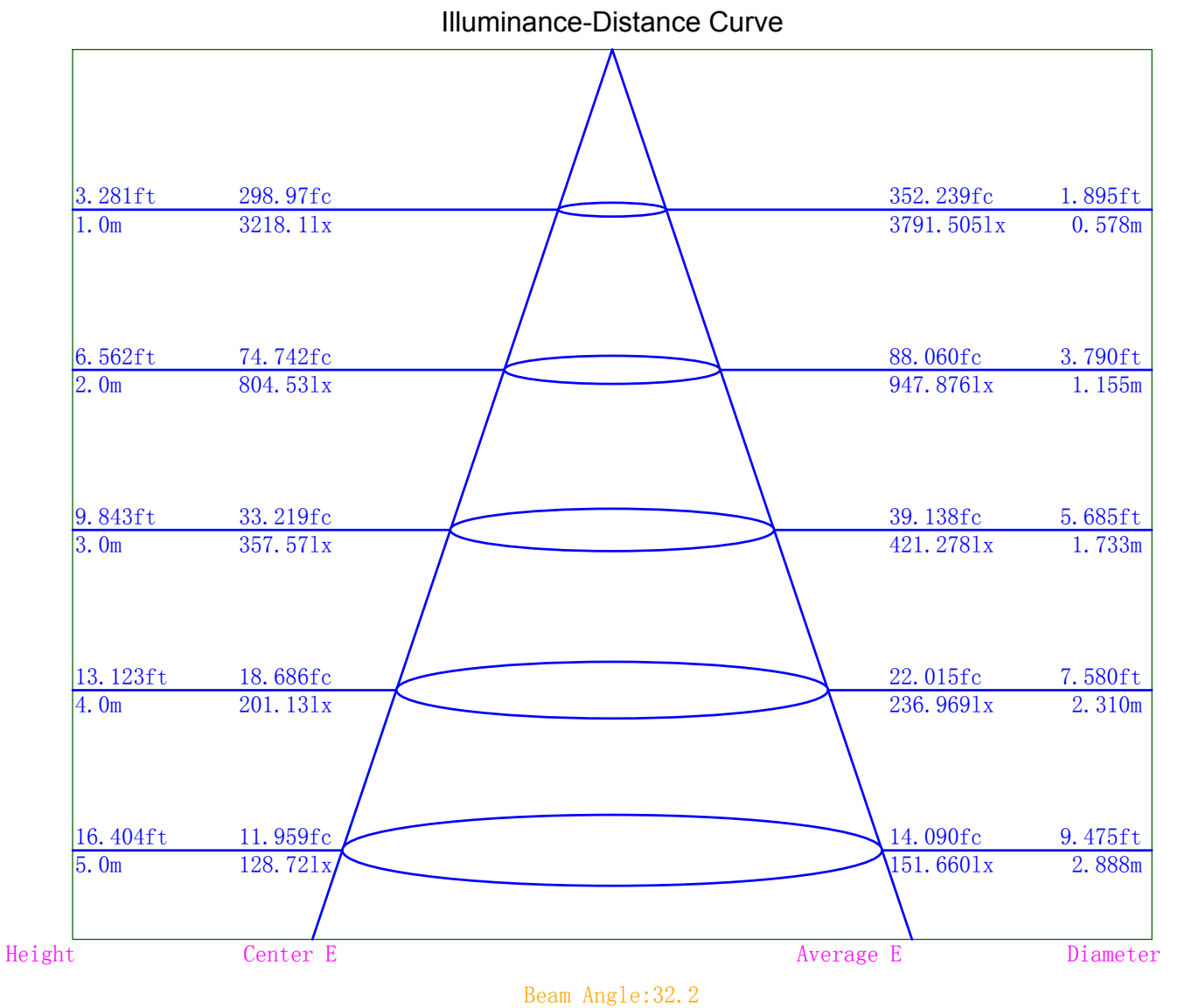
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:3260.35lx,2.0deg  
Plane Maximum Lighting Intensity and @Angle:3271.041cd,0deg

Illuminance-Distance Diagram

|  |                       |                             |
|--|-----------------------|-----------------------------|
| Lum. Name:TR05-15-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID:01                  |
| Lamp Name:                                     | Lamp Catelog:LED      | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2020/07/09        |



Indoor Luminance Limiting Curves

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: TR05-15-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |

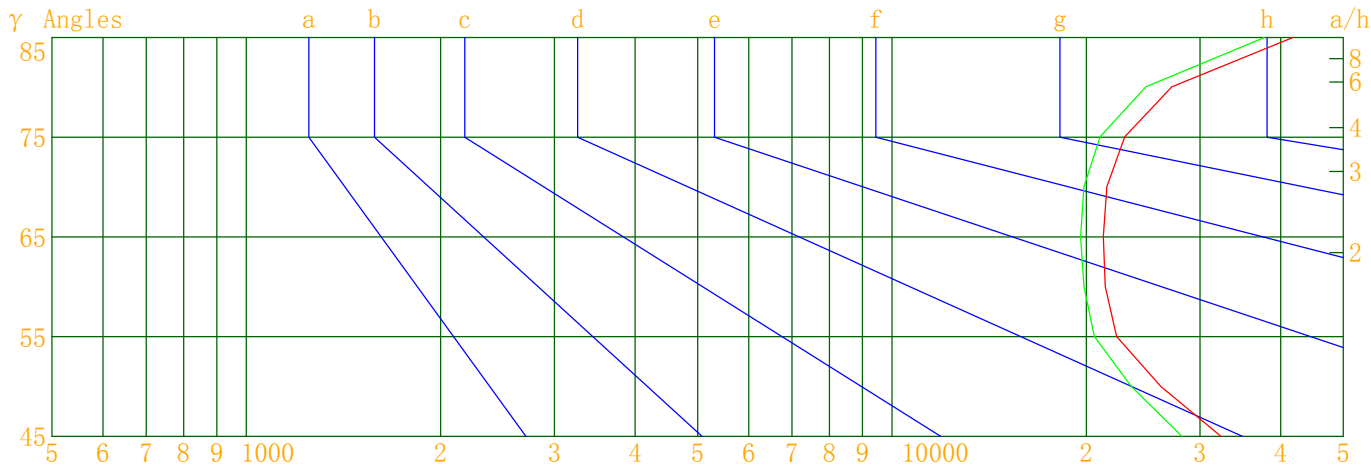
Glare Grade Table

| GI   | Quality | Using Illuminance |      |      |       |       |       |       |       |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A       | 2000              | 1000 | 500  | <=300 |       |       |       |       |
| 1.5  | B       |                   | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85 | C       |                   |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.2  | D       |                   |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55 | E       | a                 |      |      |       | 2000  | 1000  | 500   | <=300 |
|      |         |                   | b    | c    | d     | e     | f     | g     | h     |

Luminance Table

| Gama(deg) | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0        | 32325 | 26080 | 22285 | 21396 | 21253 | 21519 | 22938 | 27135 | 41769 |
| C90       | 28128 | 23484 | 20577 | 19827 | 19594 | 19829 | 21006 | 24730 | 37737 |

Luminance Limiting Curve



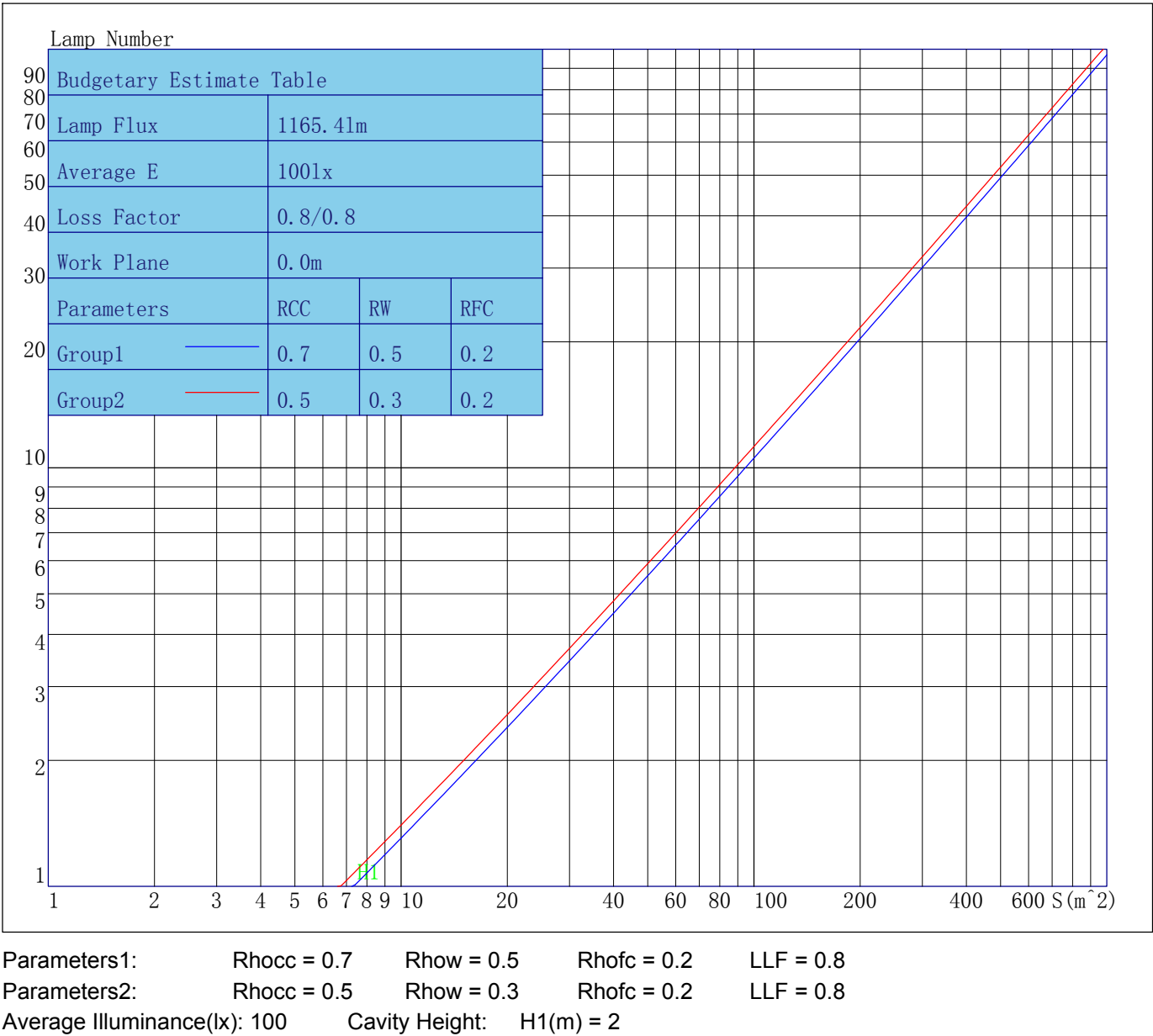
Luminous Size: Length(m)=0.000 Width(m)=-0.050 Height(m)=0.000 Area(m^2)=0.001963

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: TR05-15-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |



Indoor Coefficient of Utilization Table

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: TR05-15-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catelog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2020/07/09        |

| Coefficients of Utilization - Zonal Cavity Method |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Coef.   | Effective Floor Cavity Reflectance RFC=0.20 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| RhoCC (%)   | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0  |
| RhoW (%)  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0  |
| RCR   | Coefficient of Utilization(%)               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 118   | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 | 97 |
| 1   | 113   | 111 | 108 | 106 | 110 | 108 | 106 | 104 | 104 | 102 | 100 | 99  | 98  | 97  | 96  | 95  | 94  | 92 |
| 2   | 108   | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 98  | 96  | 93  | 95  | 93  | 91  | 92  | 90  | 89  | 87 |
| 3   | 104   | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 90  | 88  | 91  | 88  | 86  | 88  | 86  | 84  | 83 |
| 4   | 100   | 93  | 88  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 87  | 84  | 82  | 85  | 83  | 80  | 79 |
| 5   | 96  | 89  | 84  | 80  | 94  | 88  | 83  | 80  | 86  | 82  | 79  | 84  | 80  | 78  | 82  | 79  | 77  | 76 |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 82  | 78  | 75  | 81  | 77  | 74  | 79  | 76  | 74  | 72 |
| 7   | 89  | 81  | 76  | 73  | 88  | 81  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 77  | 73  | 71  | 70 |
| 8   | 86  | 78  | 73  | 70  | 85  | 77  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 74  | 71  | 68  | 67 |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 73  | 69  | 66  | 73  | 69  | 66  | 72  | 68  | 66  | 65 |
| 10  | 80  | 72  | 68  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 69  | 66  | 63  | 62 |

Unified Glare Rating Table

|  |                       |                             |
|--|-----------------------|-----------------------------|
| Lum. Name:TR05-15-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID:01                  |
| Lamp Name:                                     | Lamp Catelog:LED      | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2020/07/09        |

Unified Glare Rating Table

|   |                 |      |      |      |      |               |      |      |      |      |
|---|-----------------|------|------|------|------|---------------|------|------|------|------|
| Ceiling RCC                                       | 0.70            | 0.70 | 0.50 | 0.50 | 0.30 | 0.70          | 0.70 | 0.50 | 0.50 | 0.30 |
| Wall RW   | 0.50            | 0.30 | 0.50 | 0.30 | 0.30 | 0.50          | 0.30 | 0.50 | 0.30 | 0.30 |
| Floor RFC   | 0.20            | 0.20 | 0.20 | 0.20 | 0.20 | 0.20          | 0.20 | 0.20 | 0.20 | 0.20 |
| Room Size   | Vewed crosswise |      |      |      |      | Vewed endwise |      |      |      |      |
| X=2H    Y=2H                                      | 18.4            | 19.4 | 18.9 | 19.8 | 20.2 | 17.7          | 18.7 | 18.2 | 19.1 | 19.5 |
|   | 19.4            | 20.3 | 19.9 | 20.7 | 21.1 | 18.8          | 19.7 | 19.2 | 20.1 | 20.5 |
|   | 20.0            | 20.8 | 20.5 | 21.2 | 21.7 | 19.4          | 20.2 | 19.9 | 20.6 | 21.1 |
|   | 20.7            | 21.4 | 21.1 | 21.8 | 22.3 | 20.1          | 20.8 | 20.5 | 21.2 | 21.7 |
|   | 21.0            | 21.7 | 21.5 | 22.2 | 22.7 | 20.4          | 21.1 | 20.9 | 21.6 | 22.0 |
|   | 21.5            | 22.1 | 21.9 | 22.6 | 23.1 | 20.8          | 21.5 | 21.3 | 21.9 | 22.4 |
| X=4H    Y=2H                                      | 18.7            | 19.5 | 19.1 | 19.9 | 20.3 | 18.0          | 18.9 | 18.5 | 19.3 | 19.7 |
|   | 19.9            | 20.6 | 20.4 | 21.1 | 21.5 | 19.4          | 20.0 | 19.8 | 20.5 | 21.0 |
|   | 20.7            | 21.3 | 21.2 | 21.8 | 22.3 | 20.1          | 20.7 | 20.6 | 21.2 | 21.7 |
|   | 21.5            | 22.1 | 22.1 | 22.6 | 23.1 | 21.0          | 21.5 | 21.5 | 22.0 | 22.6 |
|   | 22.0            | 22.5 | 22.5 | 23.0 | 23.6 | 21.5          | 22.0 | 22.0 | 22.5 | 23.0 |
|   | 22.6            | 23.0 | 23.1 | 23.5 | 24.1 | 22.0          | 22.4 | 22.6 | 23.0 | 23.5 |
| X=8H    Y=4H                                      | 20.9            | 21.4 | 21.4 | 21.9 | 22.5 | 20.4          | 20.9 | 20.9 | 21.4 | 21.9 |
|   | 22.0            | 22.4 | 22.6 | 23.0 | 23.5 | 21.5          | 21.9 | 22.1 | 22.5 | 23.0 |
|   | 22.7            | 23.0 | 23.2 | 23.6 | 24.1 | 22.1          | 22.5 | 22.7 | 23.1 | 23.6 |
|   | 23.4            | 23.7 | 24.0 | 24.3 | 24.9 | 22.9          | 23.2 | 23.5 | 23.7 | 24.4 |
| X=12H    Y=4H                                     | 21.0            | 21.4 | 21.5 | 21.9 | 22.5 | 20.5          | 20.9 | 21.0 | 21.4 | 22.0 |
|   | 22.1            | 22.5 | 22.7 | 23.0 | 23.6 | 21.6          | 22.0 | 22.2 | 22.5 | 23.1 |
|   | 22.9            | 23.2 | 23.4 | 23.7 | 24.3 | 22.4          | 22.7 | 22.9 | 23.2 | 23.8 |
| Variations with the objerver position at spacings |                 |      |      |      |      |               |      |      |      |      |
| S=1.0H  | 0.1/-0.1        |      |      |      |      | 0.2/-0.2      |      |      |      |      |
| S=1.5H  | 0.3/-0.3        |      |      |      |      | 0.3/-0.4      |      |      |      |      |
| S=2.0H  | 0.3/-0.4        |      |      |      |      | 0.3/-0.4      |      |      |      |      |
| Reduced UGR Table:                                |                 |      |      |      |      |               |      |      |      |      |
| Nordic Standard Table:                            | BK0             |      |      |      |      | BK0           |      |      |      |      |
| Correction Value                                  | 3.2             |      |      |      |      | 3.3           |      |      |      |      |

o the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report

Photometric Filename:TR05-15-XX-01 3000K RA90 36D.IES

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Candela Tabulation

| V/H    | C0.0    | C90.0   | C180.0  | C270.0  |
|--------|---------|---------|---------|---------|
| γ 0.0  | 3218.11 | 3218.11 | 3218.11 | 3218.11 |
| γ 1.0  | 3245.46 | 3251.57 | 3161.43 | 3202.70 |
| γ 2.0  | 3266.31 | 3249.25 | 3102.79 | 3158.96 |
| γ 3.0  | 3271.04 | 3236.99 | 3030.12 | 3101.96 |
| γ 4.0  | 3260.19 | 3203.54 | 2945.69 | 3030.91 |
| γ 5.0  | 3235.63 | 3160.32 | 2848.44 | 2943.03 |
| γ 6.0  | 3196.64 | 3105.72 | 2739.66 | 2835.03 |
| γ 7.0  | 3142.42 | 3039.35 | 2619.64 | 2711.12 |
| γ 8.0  | 3075.06 | 2957.44 | 2484.67 | 2580.15 |
| γ 9.0  | 2990.88 | 2864.72 | 2341.28 | 2440.96 |
| γ 10.0 | 2893.93 | 2758.43 | 2192.67 | 2291.32 |
| γ 11.0 | 2778.16 | 2639.60 | 2039.29 | 2134.13 |
| γ 12.0 | 2648.53 | 2510.00 | 1885.27 | 1973.90 |
| γ 13.0 | 2509.70 | 2366.88 | 1723.73 | 1811.04 |
| γ 14.0 | 2364.23 | 2219.11 | 1561.74 | 1644.36 |
| γ 15.0 | 2218.53 | 2072.03 | 1401.89 | 1480.18 |
| γ 16.0 | 2062.07 | 1916.45 | 1247.01 | 1312.96 |
| γ 17.0 | 1904.38 | 1759.23 | 1091.72 | 1147.17 |
| γ 18.0 | 1744.61 | 1601.46 | 939.35  | 986.71  |
| γ 19.0 | 1582.69 | 1441.90 | 797.95  | 836.91  |
| γ 20.0 | 1419.82 | 1284.00 | 668.11  | 704.85  |
| γ 21.0 | 1261.06 | 1129.19 | 558.54  | 592.00  |
| γ 22.0 | 1100.68 | 978.62  | 466.98  | 496.55  |
| γ 23.0 | 947.13  | 834.77  | 388.85  | 415.50  |
| γ 24.0 | 806.72  | 703.13  | 324.36  | 348.70  |
| γ 25.0 | 680.44  | 588.69  | 271.82  | 293.32  |
| γ 26.0 | 574.50  | 491.63  | 228.95  | 247.40  |
| γ 27.0 | 486.03  | 410.06  | 195.30  | 210.90  |
| γ 28.0 | 411.84  | 342.39  | 168.96  | 181.22  |
| γ 29.0 | 347.98  | 285.71  | 148.32  | 157.32  |
| γ 30.0 | 296.09  | 240.12  | 131.71  | 138.80  |
| γ 31.0 | 254.01  | 205.77  | 116.53  | 122.75  |
| γ 32.0 | 220.43  | 178.75  | 102.50  | 109.70  |
| γ 33.0 | 193.36  | 158.29  | 88.85   | 96.63   |
| γ 34.0 | 170.47  | 141.39  | 76.44   | 84.28   |
| γ 35.0 | 151.68  | 126.56  | 65.21   | 72.35   |
| γ 36.0 | 134.22  | 111.95  | 55.70   | 61.89   |
| γ 37.0 | 117.64  | 98.20   | 48.27   | 53.43   |
| γ 38.0 | 102.30  | 85.35   | 42.71   | 46.97   |
| γ 39.0 | 88.55   | 74.10   | 38.58   | 42.25   |
| γ 40.0 | 76.52   | 64.52   | 35.50   | 38.73   |
| γ 41.0 | 66.66   | 56.83   | 33.23   | 36.11   |
| γ 42.0 | 59.00   | 50.75   | 31.48   | 34.10   |
| γ 43.0 | 53.12   | 45.94   | 30.20   | 32.52   |
| γ 44.0 | 48.50   | 42.12   | 29.17   | 31.15   |
| γ 45.0 | 44.88   | 39.05   | 28.22   | 29.89   |
| γ 46.0 | 41.89   | 36.53   | 27.24   | 28.37   |

Candela Tabulation - (Cont.)

| V/H    | C0.0  | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 39.37 | 34.53 | 25.53  | 26.27  |
| γ 48.0 | 37.19 | 32.82 | 24.59  | 25.37  |
| γ 49.0 | 35.14 | 31.24 | 23.92  | 24.71  |
| γ 50.0 | 32.92 | 29.64 | 23.24  | 24.07  |
| γ 51.0 | 30.09 | 27.52 | 22.64  | 23.45  |
| γ 52.0 | 28.53 | 26.26 | 22.03  | 22.84  |
| γ 53.0 | 27.29 | 25.16 | 21.47  | 22.30  |
| γ 54.0 | 26.18 | 24.13 | 20.91  | 21.74  |
| γ 55.0 | 25.10 | 23.17 | 20.35  | 21.23  |
| γ 56.0 | 24.13 | 22.31 | 19.82  | 20.70  |
| γ 57.0 | 23.23 | 21.52 | 19.32  | 20.18  |
| γ 58.0 | 22.42 | 20.84 | 18.79  | 19.63  |
| γ 59.0 | 21.68 | 20.12 | 18.23  | 19.07  |
| γ 60.0 | 21.00 | 19.47 | 17.66  | 18.45  |
| γ 61.0 | 20.33 | 18.84 | 17.04  | 17.82  |
| γ 62.0 | 19.70 | 18.20 | 16.48  | 17.26  |
| γ 63.0 | 19.04 | 17.59 | 15.90  | 16.65  |
| γ 64.0 | 18.34 | 16.95 | 15.27  | 16.01  |
| γ 65.0 | 17.64 | 16.26 | 14.64  | 15.36  |
| γ 66.0 | 17.02 | 15.69 | 14.02  | 14.72  |
| γ 67.0 | 16.39 | 15.12 | 13.44  | 14.13  |
| γ 68.0 | 15.72 | 14.50 | 12.86  | 13.56  |
| γ 69.0 | 15.06 | 13.88 | 12.29  | 12.97  |
| γ 70.0 | 14.45 | 13.32 | 11.74  | 12.40  |
| γ 71.0 | 13.86 | 12.74 | 11.20  | 11.86  |
| γ 72.0 | 13.29 | 12.21 | 10.68  | 11.32  |
| γ 73.0 | 12.73 | 11.68 | 10.18  | 10.80  |
| γ 74.0 | 12.18 | 11.17 | 9.68   | 10.29  |
| γ 75.0 | 11.66 | 10.68 | 9.18   | 9.80   |
| γ 76.0 | 11.15 | 10.21 | 8.73   | 9.33   |
| γ 77.0 | 10.65 | 9.75  | 8.26   | 8.85   |
| γ 78.0 | 10.17 | 9.29  | 7.81   | 8.41   |
| γ 79.0 | 9.70  | 8.85  | 7.38   | 7.97   |
| γ 80.0 | 9.25  | 8.43  | 6.97   | 7.54   |
| γ 81.0 | 8.81  | 8.00  | 6.56   | 7.14   |
| γ 82.0 | 8.37  | 7.61  | 6.17   | 6.73   |
| γ 83.0 | 7.95  | 7.20  | 5.79   | 6.35   |
| γ 84.0 | 7.54  | 6.84  | 5.45   | 5.98   |
| γ 85.0 | 7.15  | 6.46  | 5.11   | 5.62   |
| γ 86.0 | 6.76  | 6.09  | 4.77   | 5.29   |
| γ 87.0 | 6.40  | 5.75  | 4.52   | 5.05   |
| γ 88.0 | 6.04  | 5.41  | 4.40   | 4.91   |
| γ 89.0 | 5.69  | 5.11  | 4.30   | 4.79   |
| γ 90.0 | 5.37  | 4.80  | 4.22   | 4.68   |
| γ 91.0 | 5.13  | 4.56  | 4.13   | 4.59   |
| γ 92.0 | 5.00  | 4.43  | 4.07   | 4.50   |
| γ 93.0 | 4.90  | 4.36  | 4.00   | 4.41   |



Candela Tabulation - (Cont.)

| V/H     | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0  | 4.80 | 4.29  | 3.92   | 4.34   |
| γ 95.0  | 4.71 | 4.22  | 3.87   | 4.26   |
| γ 96.0  | 4.63 | 4.16  | 3.81   | 4.19   |
| γ 97.0  | 4.55 | 4.09  | 3.76   | 4.13   |
| γ 98.0  | 4.48 | 4.05  | 3.71   | 4.06   |
| γ 99.0  | 4.41 | 3.99  | 3.65   | 4.01   |
| γ 100.0 | 4.35 | 3.94  | 3.63   | 3.95   |
| γ 101.0 | 4.28 | 3.88  | 3.59   | 3.91   |
| γ 102.0 | 4.22 | 3.84  | 3.56   | 3.87   |
| γ 103.0 | 4.16 | 3.79  | 3.53   | 3.82   |
| γ 104.0 | 4.11 | 3.73  | 3.50   | 3.79   |
| γ 105.0 | 4.05 | 3.69  | 3.48   | 3.75   |
| γ 106.0 | 3.99 | 3.65  | 3.46   | 3.71   |
| γ 107.0 | 3.93 | 3.61  | 3.44   | 3.70   |
| γ 108.0 | 3.89 | 3.57  | 3.43   | 3.67   |
| γ 109.0 | 3.84 | 3.54  | 3.43   | 3.65   |
| γ 110.0 | 3.78 | 3.50  | 3.42   | 3.65   |
| γ 111.0 | 3.74 | 3.46  | 3.42   | 3.63   |
| γ 112.0 | 3.70 | 3.43  | 3.43   | 3.63   |
| γ 113.0 | 3.67 | 3.40  | 3.44   | 3.61   |
| γ 114.0 | 3.63 | 3.37  | 3.45   | 3.62   |
| γ 115.0 | 3.59 | 3.35  | 3.47   | 3.62   |
| γ 116.0 | 3.56 | 3.33  | 3.49   | 3.63   |
| γ 117.0 | 3.53 | 3.30  | 3.53   | 3.65   |
| γ 118.0 | 3.51 | 3.30  | 3.57   | 3.68   |
| γ 119.0 | 3.48 | 3.29  | 3.61   | 3.71   |
| γ 120.0 | 3.48 | 3.28  | 3.67   | 3.75   |
| γ 121.0 | 3.47 | 3.29  | 3.73   | 3.80   |
| γ 122.0 | 3.46 | 3.30  | 3.82   | 3.86   |
| γ 123.0 | 3.47 | 3.32  | 3.89   | 3.94   |
| γ 124.0 | 3.49 | 3.35  | 4.00   | 4.02   |
| γ 125.0 | 3.51 | 3.38  | 4.11   | 4.12   |
| γ 126.0 | 3.55 | 3.43  | 4.24   | 4.22   |
| γ 127.0 | 3.59 | 3.48  | 4.36   | 4.35   |
| γ 128.0 | 3.65 | 3.56  | 4.52   | 4.47   |
| γ 129.0 | 3.71 | 3.63  | 4.67   | 4.61   |
| γ 130.0 | 3.80 | 3.73  | 4.84   | 4.77   |
| γ 131.0 | 3.89 | 3.85  | 5.03   | 4.93   |
| γ 132.0 | 4.00 | 3.97  | 5.22   | 5.12   |
| γ 133.0 | 4.13 | 4.11  | 5.43   | 5.32   |
| γ 134.0 | 4.26 | 4.26  | 5.62   | 5.50   |
| γ 135.0 | 4.41 | 4.42  | 5.84   | 5.70   |
| γ 136.0 | 4.57 | 4.59  | 6.04   | 5.91   |
| γ 137.0 | 4.76 | 4.79  | 6.27   | 6.13   |
| γ 138.0 | 4.93 | 4.99  | 6.51   | 6.35   |
| γ 139.0 | 5.14 | 5.19  | 6.75   | 6.57   |
| γ 140.0 | 5.34 | 5.41  | 6.97   | 6.80   |

Candela Tabulation - (Cont.)

| V/H     | C0.0  | C90.0 | C180.0 | C270.0 |
|---------|-------|-------|--------|--------|
| γ 141.0 | 5.55  | 5.62  | 7.20   | 7.03   |
| γ 142.0 | 5.76  | 5.86  | 7.43   | 7.27   |
| γ 143.0 | 5.99  | 6.09  | 7.66   | 7.49   |
| γ 144.0 | 6.22  | 6.31  | 7.90   | 7.71   |
| γ 145.0 | 6.46  | 6.55  | 8.11   | 7.93   |
| γ 146.0 | 6.68  | 6.78  | 8.33   | 8.13   |
| γ 147.0 | 6.91  | 7.02  | 8.52   | 8.34   |
| γ 148.0 | 7.15  | 7.24  | 8.73   | 8.53   |
| γ 149.0 | 7.38  | 7.46  | 8.91   | 8.73   |
| γ 150.0 | 7.60  | 7.66  | 9.10   | 8.91   |
| γ 151.0 | 7.82  | 7.90  | 9.26   | 9.08   |
| γ 152.0 | 8.03  | 8.08  | 9.42   | 9.24   |
| γ 153.0 | 8.25  | 8.29  | 9.57   | 9.38   |
| γ 154.0 | 8.44  | 8.46  | 9.69   | 9.51   |
| γ 155.0 | 8.63  | 8.64  | 9.81   | 9.62   |
| γ 156.0 | 8.82  | 8.81  | 9.91   | 9.72   |
| γ 157.0 | 8.98  | 8.97  | 10.00  | 9.81   |
| γ 158.0 | 9.14  | 9.11  | 10.06  | 9.87   |
| γ 159.0 | 9.29  | 9.24  | 10.09  | 9.93   |
| γ 160.0 | 9.42  | 9.36  | 10.13  | 9.97   |
| γ 161.0 | 9.54  | 9.46  | 10.15  | 9.99   |
| γ 162.0 | 9.63  | 9.55  | 10.15  | 10.00  |
| γ 163.0 | 9.72  | 9.63  | 10.15  | 10.00  |
| γ 164.0 | 9.79  | 9.69  | 10.12  | 9.99   |
| γ 165.0 | 9.84  | 9.72  | 10.10  | 9.96   |
| γ 166.0 | 9.87  | 9.77  | 10.09  | 9.94   |
| γ 167.0 | 9.90  | 9.78  | 10.06  | 9.93   |
| γ 168.0 | 9.92  | 9.79  | 10.05  | 9.92   |
| γ 169.0 | 9.92  | 9.78  | 10.02  | 9.90   |
| γ 170.0 | 9.93  | 9.80  | 10.01  | 9.88   |
| γ 171.0 | 9.93  | 9.78  | 10.01  | 9.89   |
| γ 172.0 | 9.94  | 9.77  | 10.00  | 9.89   |
| γ 173.0 | 9.95  | 9.79  | 10.01  | 9.89   |
| γ 174.0 | 9.95  | 9.80  | 10.02  | 9.92   |
| γ 175.0 | 9.96  | 9.81  | 10.02  | 9.94   |
| γ 176.0 | 9.98  | 9.83  | 10.05  | 9.96   |
| γ 177.0 | 10.00 | 9.86  | 10.07  | 9.99   |
| γ 178.0 | 10.01 | 9.90  | 10.09  | 10.01  |
| γ 179.0 | 10.03 | 9.94  | 10.08  | 10.01  |
| γ 180.0 | 10.03 | 10.03 | 10.03  | 10.03  |